Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-26-05** **Date: 01-03-18**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvement to Rangamandira in Bagalagunte in Ward no.14
Agency	:	Sri. K. Madhava Reddy, No.898, 1st cross, Muneshwara Nagara, Bagalagunte, Bengaluru-560073.
Customer's Reference	:	EE/DD/WO/238/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-18
Sample ID No	:	2018-02-26-05 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.67	–
2	Finess by Air permeablity method (m^2/kg,Min)	279.5	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-02-26-05** **Date: 27-03-18**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvement to Rangamandira in Bagalagunte in Ward no.14
Agency	:	Sri. K. Madhava Reddy, No.898, 1st cross, Muneshwara Nagara, Bagalagunte, Bengaluru-560073.
Customer's Reference	:	EE/DD/WO/238/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-02-18
Sample ID No	:	2018-02-26-05 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-02-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Technical Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-02-26-05** **Date: 28-02-18**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvement to Rangamandira in Bagalagunte in Ward no.14
Agency	:	Sri. K. Madhava Reddy, No.898, 1st cross, Muneshwara Nagara, Bagalagunte, Bengaluru-560073.
Customer's Reference	:	EE/DD/WO/238/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-02-18
Sample ID No	:	2018-02-26-05 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-02-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	184	184	1.2	98.8	90-100
3	20 mm	5721	5905	39.4	60.6	30-70
4	10 mm	5183	11088	73.9	26.1	10-35
5	4.75 mm	3527	14615	97.4	2.6	0-5
6	Pan	385	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-02-26-05** **Date: 28-02-18**

Sample ID No : 2018-02-26-05 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.5	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.25	–

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